### INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/002987

#### A. CLASSIFICATION OF SUBJECT MATTER

### IPC7 G01G 7/00 B04B 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) G01G 7/00, 11/00, B04B 11/00, 13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) eKIPASS

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	JP 07080355 A (KUBOTA SEISAKUSHO KABUSHIKI KAISHA) 28 Mar. 1995 see abstract; paragraphs [0010] and [0022]~[0024]; Figures 2, 10, 12, and 13	1-3
x	JP 56108916 A (TOYODA GOSEI CO. LTD.) 28 Aug. 1981 see abstract; claim 1; column 5, line 16 ~ column 7, line 6; Figure 2	1-3
A	EP 1370363 A1 (DOU-HA BAIK AND HEUI-GEUN RYU) 17 Dec. 2003 see the whole document	1-3
A	JP 10038667 A (ISHIDA CO. LTD.) 13 Feb. 1998 see the whole document	1-3
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C.

	Further	documents	are	listed	in 1	the	continuation	of Box
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See patent family annex.

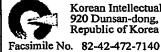
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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "&" document member of the same patent family

Date of the actual completion of the international search
28 FEBRUARY 2005 (28.02.2005)

Date of mailing of the international search report

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# **INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No. PCT/KR2004/002987

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
JP 07080355 A	28.03.1995	NONE		
JP 56108916 A	28.08.1981	NONE		
EP 1370363 A1	17.12.2003	KR 2001067837 A	13.07.2001	
		EP 1370363 A4	06.05.2004	
		EP 1370363 B1	26.01.2005	
		JP 2004519327 T2	02.07.2004	
		US 2004018927 A1	29.01.2004	
		WO 2002083317 A1	24.10.2002	
JP 10038667 A	13.02.1998	NONE		